

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1-14. (Canceled)

15. (Currently Amended) A disc filter bag made of a solid-liquid separation filter cloth composed of a plurality of yarns in the transverse and the longitudinal directions, the filter bag comprising a filtering portion having a structure and density according to desired filtering characteristics for separating liquid from a mixture consisting of solids and liquid, whereby the liquid in the mixture passes through the filter bag and the solids in the mixture remain on a surface of the filter bag, and which filter bag is further stretched over a filtering segment in a disc filter, and an underside of the filter bag, which is a portion facing the filtering segment, comprises substantially parallel yarns that are thicker than the rest of the yarns of the bag, wherein the thicker yarns are placed at predetermined intervals defined by the other yarns of the filter cloth extending parallel thereto to provide desired parallel channels therebetween to enable the filtered liquid to flow in the direction of the surface of the filtering segment between the filtering portion of the filter bag and the filtering segment,cloth, comprising:

a filter bag, made of a solid-liquid separation filter cloth, stretched over a filtering segment in a disc filter;

a single layer solid-liquid separation filter cloth comprising multi-filament warp yarns and multi-filament weft yarns;

thicker monofilament yarns woven onto the surface of the filter cloth forming flow channels for filtrate flow,

wherein the thicker monofilament yarns are spaced apart, parallel to and against the weft yarns; and

wherein the filter bag having the same shape of the filtering segment of the disc filter.

16. (Previously Presented) The disc filter bag as claimed in claim 15, wherein the diameter difference between the other yarns and the thicker yarns of the filter bag is at least 1:1.4 or more.

17. (Canceled)

18. (Previously Presented) The disc filter bag as claimed in claim 15, wherein at least some of the yarns used in the filter bag are heat-shrinkable, whereby the heat-shrinkable yarns are shortened when subjected to heat, thus allowing the filter bag to be stretched over the filtering segment by thermal treatment.

19. (Previously Presented) The disc filter bag as claimed in claim 15, wherein batt has been needled to the filtering portion of an upper surface of the filter bag, which is a surface facing away from the filtering segment, to obtain a denser structure.

20. (Currently Amended) A disc filter for solid-liquid separation, comprising:
a plurality of triangular filter segments arranged in a rotating frame, the segment forming a disc;

filter bags made of filter cloth arranged onto the segments, whereby the filter bags serve as a filtering surface when liquid is separated from a mixture consisting of solids and liquid,

wherein the filter bag having the shape of the filtering segment of the disc filter,

a basin wherein the disc is rotated and which basin contains liquid and solids, solids;

a plurality of openings provided in the filter segments allowing the liquid that has passed the filter bag to flow into the filter segment,

wherein the filter bag is made of filter cloth comprising a filtering layer composed of yarns in the traverse and the longitudinal directions, whereby the liquid in the mixture passes through the filter bag and the solids in the mixture remain on an outer surface of the filter bag;

wherein an underside of the filter bag comprises substantially parallel yarns that are thicker than the rest of the yarns of the filter bag, and thicker yarns are placed at predetermined intervals defined by the other yarns of the filter bag extending parallel thereto; and

wherein the disc filter comprises several parallel channels between the filter bag and the filter segment, and the parallel channels are confined by the thicker yarns from each other.

a single layer filter cloth comprising multi-filament warp yarns and multi-filament weft yarns; and

thicker monofilament yarns woven onto the surface of the filter cloth forming flow channels for filtrate flow,

wherein the thicker monofilament yarns are spaced apart, parallel to and against the weft yarns.

21. (Previously Presented) A disc filter as claimed in claim 20, wherein the thicker yarns in the underside of the filter bag are arranged in a longitudinal direction of the filter segment essentially towards a center duct of the disc filter.

22. (Currently Amended) A solid-liquid separation filtering module to be arranged on a cylindrical filtering element as a filtering surface ~~when liquid is separated from a mixture consisting of solids and liquid by means of a drum filter, including which filtering module is made of filter cloth comprising a filtering layer composed of yarns in the transverse and the longitudinal directions whereby the liquid in the mixture passes through the filter~~

cloth and the solids in the mixture remains on a surface of the filter cloth, and an underside of the filter cloth, which is the surface to be against the cylindrical filtering element, is comprised of substantially parallel yarns that are thicker than the other yarns of the filter cloth, and that desired channels are provided between the thicker yarns by the placement of the thicker yarns at predetermined intervals defined by the other yarns of the filter cloth extending parallel thereto, wherein the liquid filtered by the cloth is allowed to flow in the direction of a surface of the cylindrical filtering element.

a single layer filter cloth comprising multi-filament warp yarns and multi-filament weft yarns; and

thicker monofilament yarns woven onto the surface of the filter cloth forming flow channels for filtrate flow,

wherein the thicker monofilament yarns are spaced apart, parallel to and against the weft yarns.

23. (Previously Presented) The solid-liquid separation filtering module as claimed in claim 22, wherein the filter cloth is arranged such that the channels in the bottom of the cloth are directed in a longitudinal direction of the cylindrical filtering element, and the channels in the bottom of the cloth are directed such that the channels lead the filtered liquid to openings in the cylindrical filtering element.

24. (Previously Presented) The solid-liquid separation filtering module as claimed in claim 22, wherein the filtering module comprises heat-shrinkable yarns, whereby the heat-shrinkable yarns are shortened when subjected to heat, thus allowing the filtering module to be stretched over the filtering element by thermal treatment.

25. (Currently Amended) A drum filter for solid-liquid separation, comprising:
a filtering module;

a filtering element, wherein the filtering element is a cylinder including openings through the surface of the cylinder, cylinder, and

a cylindrical filtering element, wherein the filtering module is arranged on a filtering element as a filtering surface; where liquid is separated from a mixture consisting of solids and liquid, wherein the filtering module is made of a filter cloth comprising a filtering layer composed of yarns in the transverse and the longitudinal directions whereby the liquid in the mixture passes through the filter cloth and the solids in the mixture remain on a surface of the filter cloth, and an underside of the filter cloth, which is the surface to be against the filtering element, comprises substantially parallel yarns that are thicker than the other yarns of the filter cloth, and desired channels are provided between the thicker yarns by the placement of the thicker yarns at predetermined intervals defined by the other yarns of the filter cloth extending parallel thereto, wherein the liquid filtered by the filter cloth is allowed to flow in the direction of a surface of the filtering element.

wherein the filtering module is made of a single layer filter cloth comprising multi-filament warp yarns and multi-filament weft yarns; and

thicker monofilament yarns woven onto the surface of the filter cloth forming flow channels for filtrate flow,

wherein the thicker monofilament yarns are spaced apart, parallel to and against the weft yarns.

26. (Previously Presented) The drum filter as claimed in claim 25, wherein the filtering module is arranged such that the channels in the bottom of the cloth are directed in a longitudinal direction of the cylindrical filtering element, and the channels in the bottom of the cloth are directed such that the channels lead the filtered liquid to openings in the cylindrical filtering element.

27. (Previously Presented) The drum filter as claimed in claim 25, wherein the filtering module comprises heat-shrinkable yarns, whereby the heat-shrinkable yarns are shortened when subjected to heat, thus allowing the filtering module to be stretched over the cylindrical filtering element by thermal treatment.